Commissioner for Patents

AMENDMENTS TO THE ABSTRACT

The abstract is amended as follows. A clean copy of the abstract page is provided on the following page.

An apparatus ~~(10, 200, 250, 250')~~ for filtering particulates from a gas~~, comprising~~ has a casing ~~(22, 24, 202)~~ defining an inner cavity having an inlet ~~(30, 210, 260)~~ adapted to receive a flow of gas, such that gas enters the inner cavity, and an outlet ~~(40, 231, 281)~~ through which gas exits the inner cavity. A filter ~~(32, 213, 262)~~ is associated with the outlet ~~(40, 231, 281)~~ such that gas exiting the inner cavity through the outlet ~~(40, 231, 281)~~ passes through the filter ~~(32, 213, 262)~~. The filter ~~(32, 213, 262)~~ is adapted to retain particulates beyond a predetermined size from a gas flowing therethrough. A back-pulse generator ~~(42, 223, 270)~~ is positioned downstream of the filter ~~(32, 213, 262)~~. The back-pulse generator ~~(42, 223, 270)~~ is adapted to cause a reverse flow of gas through the outlet ~~(40, 231, 281)~~ and into the inner cavity of the casing, so as to dislodge a portion of the particulates retained in the filter ~~(32, 213, 262)~~ into the inner cavity.

ABSTRACT

An apparatus for filtering particulates from a gas has a casing defining an inner cavity having an inlet adapted to receive a flow of gas, such that gas enters the inner cavity, and an outlet through which gas exits the inner cavity. A filter is associated with the outlet such that gas exiting the inner cavity through the outlet passes through the filter. The filter is adapted to retain particulates beyond a predetermined size from a gas flowing therethrough. A back-pulse generator is positioned downstream of the filter. The back-pulse generator is adapted to cause a reverse flow of gas through the outlet and into the inner cavity of the casing, so as to dislodge a portion of the particulates retained in the filter into the inner cavity.